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Professor Hergesell is President, had planned to make similar researches at Spitzbergen, Sicily, Zanzibar, and the Seychelles, between July 27 and August 1. Prof. Berson informed the *Deutsch-Ostafrikanische Zeitung* that his work would begin on those days and continue for about three months. As it would be almost impossible to recover balloons sondes in a tropical wilderness, the work would be carried on from the deck of a steamer which had been placed at his disposal. The rubber balloons with self-registering instruments would be released while on the lake far from land very early in the morning. He believed that most of the balloons would be recovered as they dropped to the water. This is the first time that an effort has been made to study the conditions of the upper air in tropical latitudes of the far interior of the continents.

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## NEW MAPS.

### AFRICA.

AFRICA.—Gliederung Afrikas nach physikalischen und wirtschaftlichen Gesichtspunkte. Scale, 1:60,000,000 or 946.9 statute miles to an inch. (7 Maps of the Continent.) Von Siegfried Passarge. *Petermanns Mitt.*, No. 7, Gotha, 1908.

Supplements a paper in *Pet. Mitt.* (Vol. 54, Nos. 7 and 8) by Prof. Dr. Passarge: "Die natürliche Landschaften Afrikas." The maps are: 1. Geologische Gliederung, 2. Orographische Karte, 3. Orographisch-morphologische Gliederung, 4. Die Abdachungen und Abflussverhältnisse, 5. Vegetation und Verwitterung, 6. Natürliche Landschaften, 7. Wirtschaftsformen.

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ALGERIA.—Le Chemin de Fer de Tlemcen à la Frontière Marocaine. Scale, 3.3 statute miles to an inch. *Bull. Com. de l'Afrique française*, Vol. 18, No. 6, Paris, 1908.

Shows the Western part of the railroad from Oran to the Eastern border of Morocco, with a profile of the line from Tlemcen to the frontier.

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GABOON.—Carte du Nord du Gabon. Parts 1 and 2. Scale, 15.5 statute miles to an inch. *Renseignements Coloniaux*, No. 6, Paris, 1908.

Supplements a paper: "Le Cercle de la Côte Nord au Gabon," by Lieut. Poupard and Mr. Bret. A sketch map in black and white showing itineraries, aneroid altitudes and many place names. Based upon astronomically determined points, it supplies much new material for the maps.

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FRENCH CONGO.—Itinéraires de la Mission du Haut Logone 1906-1907. Scale, 65 statute miles to an inch. *Renseignements Col.*, No. 6, Paris, 1908.

A black and white sketch map showing itineraries and points astronomically fixed by the Mission of the upper Logone.

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SAHARA.—Bassin de l'Igharghar et Itinéraires au Sud du Ahaggar. Scale,

1:250,000 or 3.95 statute miles to an inch. By Lieut. Voinot. *Renseignements Col.*, No. 4, Paris, 1908.

Supplements a paper: "Reconnaissance du Bassin Supérieur de l'Igharghar." The work was done in the winter of 1905-1906.

GERMAN EAST AFRICA.—Deutsch-Ostafrika. Scale 1:5,000,000 or 78.9 statute miles to an inch. *Bull. de la Soc. Belge d'Études Coloniales*, No. 4, Brussels, 1908.

Taken from the book "Wie erschliessen wir unsere Kolonien," published by the "Deutsche Kolonialgesellschaft." Shows railroads completed and projected, and principal highways, and distinguishes the chief places in the military and colonial districts.

CAMEROONS.—Kamerun. Scale, 1:7,500,000 or 118.35 statute miles to an inch. *Deutsche Rundschau f. Geog. u. Stat.*, Vol. 30, No. 11, Vienna, 1908.

Shows the old boundary between German and French territory and the new boundary according to the treaty of April 18, 1908.

GOLD COAST.—Gold Coast. Scale, 1:125,000 or 1.9 statute mile to an inch. Sheets, 72-I-II (Debiso), 72-I-IV (Dadiaso), 72-J-III (Asafo), 72-J-IV (Wia-woso), 72-O-II (Yaou), 72-O-IV (Newtown), 72-P-I (Enchi), and 72-P-III and 72-V-1 (Tanoso & Beyin). Published under the direction of Major F. G. Guggisberg, R.E., Director of Surveys, London, 1908. Selling agents W. & A. K. Johnston, Edinburgh and London, and Edward Stanford, London. (Price, 2s. a sheet.)

MADAGASCAR.—Les Voies de Communication à Madagascar. *Les Colonies françaises*, Marseille, 1908.

A sketch map showing wagon roads, mule and native paths, railroads, and canals completed or building, and length of navigation in rivers.

## AMERICA.

### U. S. GEOLOGICAL SURVEY MAPS.

UNITED STATES.—Coal Fields of the United States. Scale, about 110 statute miles to an inch. By Marius R. Campbell. Edition of May, 1908. Washington, 1908. (Price, 10 cents.)

Described on page 543 *Bulletin Amer. Geog. Soc.*, Sept., 1908.

UNITED STATES.—Geologic Map and Sections of Iron Springs Quadrangle, Utah. Scale, 1:62,500 or 0.9 statute mile to an inch. Contour interval, 50 feet. Washington, 1907.

Illustrates Bulletin 338, "The Iron Ores of the Iron Springs District, Southern Utah," by C. K. Leith and E. C. Harder.

UNITED STATES.—Geologic Sketch Map of Northeastern Oklahoma. Scale, about 9 miles to the inch. *Bull.* 340, Washington, 1908.

Supplements a paper: "Mineral Resources of Northeastern Oklahoma," by C. E. Siebenthal, in "Contributions to Economic Geology, 1907." The area

covered is 83 miles E. and W. and 104 miles N. and S. Shows the sandstone and limestone formations, oil and gas fields, coal, coal works, lead and zinc mines and sandstone quarries.

UNITED STATES.—Map of Central Part of Colorado Showing Location of Copper Deposits in Chaffee, Fremont, and Jefferson Counties. Scale, 18 miles to an inch. *Bull.* 340, Washington, 1908.

The copper deposits are indicated only by the place names referred to in the accompanying text.

UNITED STATES.—Map of Flushing Quadrangle, Ohio. Showing Contours on Top of Berea Sand. Scale, 1:62,500 or 0.9 statute mile to an inch. *Bull.* 346, Washington, 1908.

Red contours show the top of the Berea oil sand from datum 2,000 feet below sea level. The distribution of producing oil and gas wells is shown.

UNITED STATES.—Geologic Map and Sections of the Cœur d'Alene District, Idaho. Scale, 1:62,500 or 0.9 statute mile to an inch. Washington, 1908.

Supplements Professional Paper 62: "The Geology and Ore Departments of the Cœur d'Alene District, Idaho," by Frederick Leslie Ransome and Frank Cathcart Calkins.

UNITED STATES.—Map of Rampart Placer Region, Alaska. Scale, 5 statute miles to an inch. *Bull.* No. 337. Washington, 1908.

Shows in colours gravels known to be gold bearing, productive gold-bearing gravels, and trails.

UNITED STATES.—Reconnaissance Map of the Fairbanks Quadrangle, Alaska. Scale, 1:200,000 or 3.95 statute miles to an inch. *Bull.* No. 337, Washington, 1908.

Supplements papers on "The Fairbanks and Rampart Quadrangles." Contour interval, 200 feet. Dotted lines represent probable topography, unsurveyed.

#### HYDROGRAPHIC OFFICE CHARTS.

Pilot Chart of the North Pacific Ocean, August, 1908.

Pilot Chart of the North Pacific Ocean, September, 1908.

Pilot Chart of the North Atlantic Ocean, August, 1908.

Pilot Chart of the North Atlantic Ocean, September, 1908.

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UNITED STATES.—Inland Waterway from Cape May to Bay Head. Scale, one inch to the mile. Four sheets. *Annual Report* of the State Geologist of New Jersey for 1907, Trenton, 1908.

Shows the Atlantic coast of New Jersey from Cape May to Manasquan Inlet, about 120 miles, with the proposed route of the eight-foot channel between the line of sand banks and the coast. Illustrates the report on the survey for an inland waterway from Cape May to Bay Head, carried out in 1907.

The accompanying reports give estimates of the amount of expenditure necessary to deepen such parts of this inland waterway as may be required to secure a channel of the minimum depth of eight and ten feet respectively at low water and of the width of fifty feet. The estimate for an eight-foot channel is \$164,331 and for a ten-foot channel, \$250,282.

Dr. Kümmel, State Geologist, says in his report, that although the proposed waterway would be of material value for commerce, its chief use would unquestionably

tionably be for pleasure travel and intercommunication between the many resorts upon the sea and bay shores. If the proposed improvement of Manasquan Inlet is made, it would be necessary in the passage down the coast from New York harbour to Cape May to run outside in the open ocean, a distance of only 27 miles between Sandy Hook and Manasquan Inlet. As this distance could be covered in about three hours, it would present no serious obstacle to comparatively small craft, and the remaining 125 miles to Cape May would be through sheltered inland waters.

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CANADA.—Map of the Dominion of Canada. Scale, 1:6,336,000 or 100 statute miles to an inch. By James White, Department of the Interior, Ottawa, 1908.

Shows in colours the railroad system of Canada, including lines under construction and those which as yet are only located. Among the lines located is the Canadian Northern System connecting Manitoba and Saskatchewan with Fort Churchill on Hudson Bay, the proposed short outlet for grain to Europe.

CANADA.—Geologische Karte des Nordöstlichen Teiles von Canada. Scale, 1:7,500,000 or 118.35 statute miles to an inch. *Petermanns Mitt.*, Gotha, No. 6, 1908.

Reduced from the map in the *Report* of the Geological Survey of Canada, 1906. Supplements an article by Prof. Dr. H. Haas: "Zur Geographie und Geologie Canadas und des arktischen Archipels von Nordamerika."

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ARGENTINA.—Principal Cattle Areas. Scale, 235 statute miles to an inch. *Bull. of International Bureau of Amer. Republic*, Aug., 1908.

A sketch map on which the principal cattle areas are shown by shading. Illustrates "Beef Production in the Argentine Republic," by Prof. H. W. Mumford.

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## ASIA.

CEYLON.—City of Colombo. Scale, 1:12,672 or 16 chains to an inch. Printed and published under the orders of Surveyor General P. D. Warren, Colombo, 1907.

CEYLON.—Agricultural Map of Northern Province, Ceylon. Scale, 1:253,440 or 4 statute miles to an inch. Survey Department, Colombo, 1908.

Excellent specimens of the map work which the Survey Department of Ceylon is producing. The map of Colombo is a generalization of the information given on the large survey map of the city. The agricultural map of the Northern Province shows the distribution of cocoanut and other plantations, paddy fields, grass lands, jungle and scrub, forest, and waste lands.

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EAST INDIES.—Linien der Orient-Küstenfahrt des Norddeutschen Lloyd, Bremen. Scale on the equator 200 statute miles to an inch. *Deutsche Erde*, No. 3, Justus Perthes, Gotha, 1908.

Shows in red 16 steamship routes between the islands of the East Indies, together with their sea connections by North German Lloyd lines with Siam and China.

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PERSIAN GULF AND ARABIA, SOUTH COAST.—Salzgehalt des Oberflächenwassers

im Persischen Golf und der arabischen Südküste. *Annalen d. Hydrog.*, No. 7, Berlin, 1908.

Supplements a paper: "Der Salzgehalt des Persischen Golfes und der angrenzenden Gewässer," by Prof. Dr. Gerhard Schott, based upon the analyses of water specimens taken in February, May, and June, 1907.

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PHILIPPINES.—Map Showing Principal Mineral Districts. Mercator Projection. Scale, 1:5,000,000 in latitude 13° N., or 78.9 statute miles to an inch. Bureau of Science, Manila, 1908.

Supplements a paper on "The Mineral Resources of the Philippine Islands." A sketch map giving the distribution of gold, copper, iron, and coal, and railroads completed or projected.

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MANCHURIA.—Map of Antung. Scale, 600 yards to an inch. *Returns of Trade*, Part II, Vol. 1, Northern Ports, Shanghai, 1908.

Shows the plan of the town, navigable conditions of the Yalu river, and the proposed bridge across the Yalu to connect the Korean and Manchurian railroad systems.

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#### EUROPE.

GERMANY.—Deutsches Reich. Three Maps Showing in Colours (1) Increase in Population from December 1, 1900 to 1905, (2) Natural growth of population or preponderance of births over deaths in the same Period, (3) Areas gaining or losing population in that time by Immigration or Emigration. *Statistisches Jahrbuch für das Deutsche Reich*, Berlin, 1908.

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GERMANY.—Hydrograph. Karte des Gebietes zwischen Dill, Lahn, Rhein u. Sieg. Scale, 1:150,000 or 2.38 statute miles to an inch. By Fritz Loos. *Geographische Mitteilungen aus Hessen*, No. 4, Giessen, 1908.

Mr. Loos drew the map upon the basis of the Government topographic map in 1:100,000. Relief is shown by 6 tints of brown; contour interval, 100 meters; streams coloured to show whether they belong to the drainage territory of the Rhine, Lahn, or Sieg, water partings red and numbered to correspond with numbers in Mr. Loos's paper "Zur Hydrographie des Westerwaldes," under which he discusses each of the eleven water partings. The map is a fine example of the cartographic representation of the distribution of drainage in a comparatively small area, like this of the Westerwald.

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GERMANY.—Reise und Eisenbahnkarte von Deutschland. Scale, 1:2,000,000 or 31.36 statute miles to an inch. Von C. Opitz. With alphabetic list of places. Otto Dietrich, Leipzig, 1908. (Price, with index of places, 60 pf.)

The map is distinguished by fullness of information clearly expressed. Town marks are differentiated to show approximate population. All the routes (railroads, main, tributary, and minor highways, those in process of construction, etc.) are indicated in red. The head of navigation on the rivers and canals, and cables are shown. The alphabetical index of place names helps this fine map to fulfill its purpose as a convenience to travellers in Germany and the contiguous lands.

FRANCE.—La Chafne du Mont Blanc. Nouvelle édition de 1906 en 4 feuilles. (1) Massif de Trélatête. Scale, 1:50,000 or 0.7 statute mile to an inch. Supplement to the Yearbook of the Swiss Alpine Club, Vol. XLIII., Bern, 1908.

Contours with 50 meters intervals and light and shade express relief forms clearly.

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SWITZERLAND.—Karte zur Reise und die Eisgebirge des Kantons Bern. Supplement to the Yearbook of the Swiss Alpine Club, Vol. XLIII., Bern, 1908.

The map is reproduced from the Zschokke-Meyerschen Reisebericht, Aarau, 1813. It shows the route of the Messrs. Meyer, in 1811 and 1812, in the Bernese Alps. They traversed the whole length of many of the glaciers in this region, besides ascending the Jungfrau and other mountains.

SWITZERLAND.—Carte du Valais et du Tessin pour Touristes. Scale, 1:300,000 or 4.73 statute miles to an inch. With 4 Insets, scale, 1:75,000 or 1.18 statute mile to an inch. By J. Frey. Geographischer Karten-Verlag Bern, 1908. (Price, paper, frs. 3.50.)

One of the superior tourist maps issued by Kümmerly & Frey & A. Francke. Contours, light, and shade are skillfully used to produce the effect of relief without sacrifice of scientific accuracy. A large variety of information is clearly expressed. The contour interval is 300 meters and the map is based upon the Government official maps in 1:25,000 and 1:50,000.

SWITZERLAND.—Orientierungskarte zu den Profilen und Trogrändern im Rhonegebiet. Scale, 1:250,000 or 3.95 statute miles to an inch. Von Hans Hess. *Zeits. f. Gletscherkunde*, Vol. II., No. 5, Berlin, 1908.

Supplements a paper: "Alte Talböden im Rhonegebiet," by Mr. Hess. Water partings, profiles, etc., are imposed in red upon the Swiss topographic map of this region.

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## OCEANIA.

CAROLINE ISLANDS.—Der Taifun in den Karolinen 27 bis 29 März 1907. Scale, 1:4,000,000 or 63.1 statute miles to an inch. Von C. Jeschke. *Petermanns Mitt.*, No. 6, Gotha, 1908.

Traces the route of this destructive typhoon and indicates the islands that were damaged or destroyed. Supplements an article on the typhoon by Captain Jeschke.

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## BOOK NOTICES.

**Original Narratives of Early American History. The Northmen, Columbus and Cabot, 985-1503.** With Maps and a Facsimile Reproduction. Charles Scribner's Sons, New York, 1906-1907.

Volume I contains:

*First*, The Voyages of the Northmen, edited by Professor Julius E. Olson. A fairly critical, and therefore welcome, review of the early sailings of the Northmen to the North-American coast. Nova Scotia is the region looked upon as most likely to correspond to Vinland. We may perhaps miss, in Prof. Olson's